

Name: _____

Agricultural Power I**Directions:**

Evaluate the student by checking the appropriate number or letter to indicate the degree of competency. The rating for each task should reflect **employability readiness** rather than the grades given in class.

Rating Scale:

- 3 Mastered** – can work independently with no supervision
2 Requires Supervision – can perform job completely with limited supervision
1 Not Mastered – requires instruction and close supervision
N No Exposure – no experience or knowledge in this area

NOTE: The code in parentheses is the competency identification number used in computerized management systems.

NOTE: All competencies involving safety require a Number 3 rating.

3	2	1	N

The student has mastered the related competencies of Agricultural Science I and II.

3	2	1	N	A. Explaining Principles of Operation	Notes:
				1. Explain the operating principles of a two-cycle engine (A001)	
				2. Explain the operating principles of a four-cycle engine (A002)	
				3. Identify safety procedures to follow when servicing & repairing a single cylinder engine (A003)	
				Other:	

3	2	1	N	B. Using Measuring Tools	Notes:
				1. Demonstrate the use of a micrometer (B001)	
				2. Demonstrate the use of a dial caliper (B002)	
				3. Demonstrate the use of a telescoping gauge (B003)	
				4. Demonstrate the use of a dial indicator (B004)	
				5. Demonstrate the use of a torque wrench (B005)	
				6. Demonstrate the use of a reject gauge (G0-NO GO gauge) (B006)	
				7. Demonstrate the use of a feeler gauge (B007)	
				Other:	

3	2	1	N	C. Using Shop Tools and Equipment	Notes:
				1. Demonstrate the use of shop hand tools (C001)	
				2. Demonstrate the use of shop power tools (C002)	
				3. Demonstrate the use of cleaning equipment (C003)	
				Other:	

3	2	1	N	D. Selecting Engine Parts and Fasteners	Notes:
				1. Identify parts of an engine (D001)	
				2. Select, install, or assemble parts (D002)	
				3. Select correct engine fasteners (D003)	
				Other:	

3	2	1	N	E. Using a Service Manual	Notes:
				1. Interpret & apply a service manual (E001)	
				2. Select oils, fuels, & lubricants (E002)	
				Other:	

3	2	1	N	F. Testing and Analyzing a Single Cylinder Engine System	Notes:
				1. Test & analyze a carburetion system (F001)	
				2. Test & analyze a compression system (F002)	
				3. Test & analyze an ignition system (F003)	
				4. Test & analyze a fuel injection system (F004)	
				5. Test & analyze an electrical system (F005)	
				6. Test & analyze a lubrication system (F006)	
				7. Test & analyze a governor system (F007)	
				Other:	

3	2	1	N	G. Servicing a Single Cylinder Engine	Notes:
				1. Clean, adjust, and/or repair a carburetor (G001)	
				2. Service & adjust an electrical system (G002)	
				3. Grind & adjust valves (G003)	
				4. Recondition or replace cylinders & pistons (G004)	
				5. Service & repair a lubrication system (G005)	
				6. Clean & service a cooling system (G006)	
				7. Clean & service an air intake & exhaust system (G007)	
				8. Service & repair a mechanical starting system (G008)	
				9. Prepare engine for winter storage (G009)	
				Other:	

3	2	1	N	Leadership & Personal Development for Advanced Students (Leadership Duty C)	Notes:
				1. Develop a resume and complete a job application (C001)	
				2. Develop a plan for finding a job (C002)	
				3. Describe how to apply and interview for a job (C003)	
				4. Describe the characteristics needed to develop desirable personal and social skills (C004)	
				5. Describe the importance and process of developing better human relationships (C005)	
				Other:	

3	2	1	N	Using the Missouri Farm Business Record Book (SAE Duty D)	Notes:
				1. Describe the two types of accounting methods (D001)	
				2. Complete the forms needed to open the Missouri Farm Business Record Book (D002)	
				3. Develop a projected cash flow (D003)	
				4. Record receipts and expenditures in the Missouri Farm Business Record Book (D004)	
				5. Complete additional records in the Missouri Farm Business Record Book (D005)	
				6. Complete the forms necessary to summarize the Missouri Farm Business Record Book (D006)	
				7. Analyze the farm business using the Missouri Farm Business Record Book (D007)	
				Other:	